

ABSTRACT OF THE DISCLOSURE

An apparatus for perforation of wellbore walls, which apparatus includes a fiber optic cable having a laser input end and a laser output end. A laser source is operably connected to the laser input end and a laser head is connected to the laser output end. The laser head includes a laser control components for controlling at least one laser beam characteristic. Laser head control elements for controlling the motion and location of the laser head are operably connected to the fiber optic cable. The laser head is enclosed in a protective housing, which protects the fiber optic cable and elements, such as reflectors and lenses for controlling the laser beam emitted by the fiber optic cable disposed therein, from the harsh environments encountered in downhole operations.